

CLAIMS:

1. Method for pre-treatment of used tyres (1) before a pyrolysis process, **characterized** in that each tyre (1) is cleaned in a cleaning station (2) with high pressure air jets before it is fed to a first heating stage (4) of the pyrolysis process.
2. Method according to claim 1, **characterized** in that said cleaning of each tyre (1) is carried out in a closed chamber (5), whereby air contaminated with dust and other dirt particles from said tyre (1) is continuously conducted through an air cleaning device (10) for removing said dust and other dirt particles from the air, and received cleaned air is fed to a high pressure blower (8) for producing said high pressure air jets.
3. Method according to claim 2, **characterized** in that cleaning of said air is carried out by means of a high voltage electric field between a central charging electrode (11) provided with radially directed tips having a first polarity and a cylindrical collecting electrode (12) of opposed electric polarity, surrounding said charge electrode (11).
4. Method according to claim 1, **characterized** in that thus cleaned tyres (1) are fed as whole tyres into said first heating stage (4) of the pyrolysis process.
- 30 5. Method according to claim 1, **characterized** in that each thus cleaned tyre (1) is compressed to a block (1b) of reduced size before entering said first heating stage (4).

6. Equipment for pre-treatment of used tyres (1) before entering a first heating chamber (4) of a pyrolysis plant, characterized of a cleaning chamber (5) provided with a number of air nozzles (6,7) for cleaning each tyre (1) with 5 high pressure air jets while rotated around an axis of its own.

7. Equipment according to claim 6, characterized in that said cleaning chamber (5) is provided with an air cleaning circuit 10 (9) including an air cleaning device (10) and a high pressure blower (8) producing said high pressure air jets.

8. Equipment according to claim 7, characterized in that said air cleaning device (10) comprises a central charging electrode (11) provided with radially directed tips and a cylindrical collecting electrode (12) surrounding said charging electrode (11), through which collecting electrode (12) air contaminated with dust and other dirt particles from 15 the tyres (1) is intended to be fed, said electrodes (11, 12) being connected to opposed poles of a high voltage current 20 source (13).

9. Equipment according to claim 6, characterized in that a compression station (3) is provided between said cleaning chamber (5) and said first heating chamber (4), said compression station (3) being provided with hydraulically 25 operated compressing means (19, 20) for compressing each tyre (1) to a block (1a, 1b) of reduced size.

30 10. Equipment according to claim 9, characterized in that the compression station (3) comprises a narrow path (21) for a rolling tyre (1), said path (21) ending at a vertical stop plate (18), whereby said compression means (19,20) comprise a

vertical (20) and a horizontal (19) hydraulic cylinder-piston device being operated to compress a tyre (1) fed into said station (3) against said vertical stop plate (18) and path bottom, respectively.